Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: KeeSun Corporation

Well Name/Number: Sindelar Keesun #12-35-2-25

County: Yellowstone MT; Field (or Wildcat) Wildcat

Location: NW SW Section 35 T2N R25E

Air Quality (possible concerns) Long drilling time: No, 4 to 5 days drilling time. Unusually deep drilling (high horsepower rig): No, small single derrick drilling rig, about 500 HP (Estimated) to drill to 3000' TD. Possible H2S gas production: No H2S anticipated. In/near Class I air quality area: No not in a Class I air quality area. Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211. Mitigation: X Air quality permit (AQB review) __ Gas plants/pipelines available for sour gas __ Special equipment/procedures requirements Other: Comments: No special concerns – using small rig to drill to 3000' TD. If there aren't any gas gathering system nearby, associated gas can be flared under Board Rule 36.22.1220. **Water Quality** (possible concerns) Salt/oil based mud: No, freshwater and freshwater mud system. High water table: No high water table anticipated. Surface drainage leads to live water: No, closest drainages are unnamed ephemeral tributary drainages to Five Mile Creek, about 1/8 of a mile to the southeast and 7/8 of a mile to the southewest from this location. Water well contamination: No, closest water wells are about 5/8 of a mile to the southwest and about 7/8 of a mile to the southeast from this location. Depth of these domestic and irrigation wells range from 40' to 100'. Surface hole in this well will be drilled to 350' with freshwater and/or air. Steel surface casing will be run and cemented to surface to protect ground water. (Rule 36.22.1001) Porous/permeable soils: No, sandy silty bentonitic soils. Class I stream drainage: No Class I stream drainages. Mitigation: Lined reserve pit X Adequate surface casing __ Berms/dykes, re-routed drainage __ Closed mud system ___ Off-site disposal of solids/liquids (in approved facility) Other: Comments: 350' of surface casing cemented to surface adequate to protect freshwater zones (Rule 36.22.1001) Also, fresh water mud systems to be used.

Soils/Vegetation/Land Use

(possible concerns)
Steam crossings: No, stream crossings anticipated.
High erosion potential: No, small cut, up to 6.9' and small fill, up to 8.1', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If
productive unused portion of drillsite will be reclaimed. Unusually large wellsite: No. 260'X250' trapezoidal location size required.
Damage to improvements: Slight, surface use is a grassland.
Conflict with existing land use/values: Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Access will be over existing State Highway, #87, county gravel road,
Alexander Road and existing private ranch trails. A short access road will be built into
this location off an existing ranch trail. Cuttings will be buried in and unlined earthen pit.
<u>Drilling fluids if used will be allowed to dry in the pit. Pits will be backfilled after drying.</u> No special concerns.
No special concerns.
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: No residences within a 1 mile radius around this
location. The city of Billings, Montana is about 5.5 miles to the south and southeast from
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Threatened or endangered Species: Only species identified as threatened or endangered are the Black-footed Ferret and the Whooping Crane. Candidate species listed are the Sprague's Pipit and the Greater Sage Grouse. NH tracker website lists only seven (7) species of concern as the Black-tailed Prairie Dog, Spotted Bat, Golden Eagle, Burrowing Owl, Greater Sage Grouse, Loggerhead Shike and the Common Sagebrush Lizard.

Mitigation:
Avoidance (topographic tolerance/exception)
Avoidance (topographic tolerance/exception) Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: Private surface grassland. There may be species of concern that
maybe impacted by this wellsite. We ask the operator to consult with the surface owner
as to what he would like done, if a species of concern is discovered at this location. The
Board of Oil & Gas has no jurisdiction over private surface lands.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites: None identified
Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies)
Other:
Comments: Private surface grasslands. There may be possible
historical/cultural/paleontological sites that maybe impacted by this wellsite. We ask the
operator to consult with the surface owner as to his desires to preserve these sites or
not, if they are found during construction of the wellsite. The Board of Oil & Gas has no
jurisdiction over private surface lands.
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Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: No concerns. Wildcat well.
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Remarks or Special Concerns for this site
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Well is a 3000' Greybull Formation test.
Summary: Evaluation of Impacts and Cumulative effects
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No long term impacts expected. Some short term impacts will occur, but can be
mitigated.

I conclude that the approval of the subject Notice of Intent to Drill (does/<u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/<u>does not</u>) require the preparation of an environmental impact statement.

Prepared by (BOGC): /s/ Steven Sasaki(title:) _Chief Field Inspector Date: May 7, 2013 Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC website (Name and Agency) Toole County water wells.
(subject discussed) May 7, 2013 (date)
US Fish and Wildlife, Region 6 website (Name and Agency) ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA COUNTIES, Yellowstone County (subject discussed)
May 7, 2013 (date)
Montana Natural Heritage Program Website (FWP) (Name and Agency) Heritage State Rank= S1, S2, S3, T2N R25E (subject discussed)
May 7, 2013 (date)
If location was inspected before permit approval: Inspection date: Inspector:
Others present during inspection: